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 APPLICATION NO. 	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,734	(06/28/2001	Jack L. Leonard	07917-103001 / UMMC 99-45	9864
26161	7590	03/25/2003			
FISH & RI	CHARDS	SON PC	EXAMINER		
225 FRANK BOSTON, M		0	KEMMERER, ELIZABETH		
				ART UNIT	PAPER NUMBER
				1646	

DATE MAILED: 03/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

•								
9		Application No. Applicant(s)		Applicant(s)				
Office Action Summary		09/894,734		LEONARD ET AL.				
		Examiner		Art Unit				
		Elizabeth C. Ker		1646				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status	promise to communication(s) filed on 13	lanuary 2003						
<u> </u>	sponsive to communication(s) filed on $\underline{13 J}$ s action is FINAL . 2b) \boxtimes Thi	is action is non-	final					
/ <u>-</u>	<i>,</i> —			rosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>1-49</u> is/are pending in the application.								
4a) Of the above claim(s) <u>5-49</u> is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-4</u> is/are rejected.								
7) Claim(s) is/are objected to.								
•	m(s) <u>1-49</u> are subject to restriction and/or e	election requiren	nent.					
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>28 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.								
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Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
a)∟ Aii 1.□	,— ,—	s have been rec	eived					
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
Attachment(s)								
2) Notice of D	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	4)		y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restriction

Applicant's election without traverse of Group I, claims 1-4, in Paper No. 10 (13 January 2003) is acknowledged.

Claims 5-49 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 10.

Specification

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. See pp. 7 and 8, for example. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

35 U.S.C. § 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the claimed method wherein the recited "functionality" is limited to thyroid hormone-mediated vesicle transport, and the cell in which the assay is performed is limited to a neuronal cell, does not reasonably provide

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enablement for the method as broadly claimed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

The claims are directed to methods of assaying the functionality of a translation product of a mutant $\Delta TR\alpha 2$ gene in a cell. The specification discloses that $\Delta TR\alpha 2$ is involved in thyroid-hormone-mediated vesicle transport in neuronal cells. This includes synaptic vesicle recycling and endocytosis. While no mutant $\Delta TR\alpha 2$ genes are disclosed, and no working examples are provided of the claimed screening assay, such are within the normal range of experimentation for those skilled in this art. Mutants can be generated by art-known methods. The steps of the assay are known. The critical disclosure of the specification is that $\Delta TR\alpha 2$ is involved in thyroid hormone-mediated vesicle transport in neuronal cells.

However, neither the art nor the specification discloses any other function for $\Delta TR\alpha 2$, nor do they disclose any other cells in which $\Delta TR\alpha 2$ is active.

Due to the large quantity of experimentation necessary to determine functionalities of $\Delta TR\alpha 2$ other than involvement in thyroid hormone-mediated vesicle transport in neuronal cells, the lack of direction/guidance presented in the specification regarding same, the absence of working examples directed to same, the complex nature of the invention, the state of the prior art, the unpredictability of other functions or cells that may involve $\Delta TR\alpha 2$, and the breadth of the claims which fail to recite meaningful limitations regarding the function or cell source, undue experimentation

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would be required of the skilled artisan to make and/or use the claimed invention in its

full scope.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Elizabeth C. Kemmerer, Ph.D. whose telephone number

is (703) 308-2673. The examiner can normally be reached on Mon. - Thurs., 6:30 to

4:00, and alternate Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Yvonne L. Eyler, Ph.D. can be reached on (703) 308-6564. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

872-9306 for regular communications and (703) 872-9307 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0196.

ECK

March 24, 2003

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Elyabek C. Kernone